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10/066,220	11/07/2001	Jason K. Trotter	ITWO:0016	5660
75	01/13/2006		EXAM	INER
Tait R. Swanson			COTTINGHAM, JOHN R	
Fletcher, Yoder	& Van Someren			
P.O. Box 692289			ART UNIT	PAPER NUMBER
Houston, TX 77269-2289			2116	

DATE MAILED: 01/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Ameliantian No	Applicant(s)	
	Application No.		
Office Assistant Communication	10/066,220	TROTTER ET AL.	
Office Action Summary	Examiner	Art Unit	
	John R. Cottingham	2116	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 26 Min 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 75-98 is/are pending in the application 4a) Of the above claim(s) 88-94 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 75-87 and 95-98 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Election/Restrictions

- 1. Claims 88-94 are withdrawn from further consideration pursuant to 37 CFR
- 1.142(b) as being drawn to a nonelected species in Figure 12, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 7/30/02.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 75-87 and 95-98 are rejected under 35 U.S.C. 102(b) as being anticipated by Hwang U.S. Patent 5,842,394. Hwang shows all of the claimed subject matter of an automotive linkage in Figures 1-7.

Regarding claim 75, a system, comprising: an automotive linkage (the screwdriver can be used to assemble an automobile and while in use is part of the linkage), comprising: a hollow elongated member 10 having a constant cross-section along the entire length of the hollow elongated member, wherein the constant cross-section comprises a multi-sided interior defining first and second sockets 11 at respective first and second opposite ends of the hollow elongated member; and a first joint member (bottom 20) coupled to the first socket, wherein

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the first joint member comprises an attachment portion having a multi-sided perimeter 2 mated with the multi-sided interior of the first socket.

Regarding claim 76, comprising a second joint member (top side) coupled to the second socket 11, wherein the second joint member comprises another attachment portion having another multi-sided perimeter mated with the multi-sided interior of the second socket.

Regarding claim 77, wherein the first and second joints comprise different joint structures. (As seen in Figures 1 and 3)

Regarding claim 78, wherein the first and second joints comprise the same attachment portion. (see Figure 1)

Regarding claim 79, wherein the first joint member is selected from a plurality of different joint members having the same attachment portion. (see Figure 3)

Regarding claim 80, wherein the first joint member comprises a ball joint (top joint 20 in Figure 1, has a round tip and meets the limitation of a ball joint)

Regarding claim 81, wherein the multi-sided interior is a square 11.

Regarding claim 82, wherein the constant cross-section is a uniformly extruded geometry along the entire length of the hollow elongated member.

Regarding claim 83, a system, comprising: an elongated automotive linkage (the screwdriver can be used to assemble an automobile and while in use is part of the linkage) comprising a first end, a second end, and a uniform cross-section from the first end to the second end; and a family of joints 20 each

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comprising a modular attachment portion configured to mate with the uniform cross-section at the first or second end of the elongated automotive linkage.

Regarding claim 84, wherein the family of joints comprise a ball joint (point joint on top in Figure 1), or a polygonal receptacle joint, or a circular receptacle joint, or a square receptacle joint, or a hook-shaped joint, or a bushing and grommet joint, or a combination thereof.

Regarding claim 85, wherein the family of joints comprise a plurality of different rotatable joints. (all the attachments are rotabable)

Regarding claim 86, wherein the uniform cross-section comprises a uniform hollow interior. (see Figure 3).

Regarding claim 87, wherein the elongated automotive linkage and the family of joints comprise a family of automotive suspension or steering linkages. (the tool can be used to assemble automotive suspensions and is part of the suspension while in use, and thus meets the claimed limitation.)

Regarding claim 95, a system, comprising: a family of linkage joints 20 having different geometries and joint mechanisms, wherein each of the plurality of linkage joints has a standard attachment portion 21 configured to mate with a uniform lengthwise cross-section of an elongated hollow linkage.

Regarding claim 96, wherein the standard attachment portion comprises a square geometry 21.

Regarding claim 97, wherein the plurality of linkage joints comprise a plurality of different rotatable joint structures. (all the structures are rotatable)

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Regarding claim 98, wherein the plurality of linkage joints comprise a plurality of different male and female joint structures. (see Figure 3)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John R. Cottingham whose telephone number is (571) 272-7079. The examiner can normally be reached on Monday - Thursday, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571)272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John R. Cottingham Primary Examiner Art Unit 2116